CLAIMS

1. A video amplifier comprising: 1

a first filter stage having an input terminal adapted to receive an RF signal and an output 2

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an attenuator having an input terminal coupled to the output terminal of said first filter stage and an output terminal, said attenuator comprising a temperature sensitive device; and a second filter stage having an input terminal coupled to the output terminal of the attenuator and an output terminal at which an output signal of said video amplifier is provided.

- The video amplifier of claim 1 wherein said temperature sensitive device is a thermistor. 2.
- The video amplifier of claim 1 wherein each of said first filter stage and said second filter 1 3. 2 stage comprises a Sallen-Key filter.
- The video amplifier of claim 1 wherein each of said first filter stage and said second filter 1 4. 0 2 stage has a low-pass characteristic.
- The video amplifier of claim 1 wherein each of said first filter stage and said second filter 1 5. 2 stage has a bandpass characteristic.

1 6. A radar receiver comprising: 2 an RF amplifier having an input terminal adapted to receive an RF signal and an output terminal at which an amplified RF signal is provided; 3 a down-converter having an input terminal coupled to said output terminal of said RF 4 5 amplifier and an output terminal at which a lower frequency signal is provided; and 6 a video amplifier having an input terminal coupled to said output terminal of said downconverter and an output terminal at which a filtered signal is provided, wherein said video 7 8 amplifier comprises a temperature compensating attenuator. The radar receiver of claim 6 wherein said RF amplifier is comprised of GaAs transistors. 7. The radar receiver of claim 6 wherein said attenuator comprises a thermistor. 8. o 🛅 1 9. The radar receiver of claim 8 wherein said attenuator further comprises at least one H 2 resistor coupled to said thermistor to form a voltage divider. Ţ 114 The radar receiver of claim 6 said video amplifier further comprises: 10. 1 a first filter stage having an input terminal coupled to said output terminal of said down-2 converter and an output terminal coupled to said temperature compensating attenuator; and 3 a second filter stage having an input terminal coupled to said temperature compensating 4 5 attenuator and an output terminal at which said filtered signal is provided.

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- 1 11. The radar receiver of claim 9 wherein each of said first filter stage and said second filter

 2 stage has a bandpass characteristic.
- 1 12. The radar receiver of claim 11 wherein said bandpass characteristic has a low frequency

 2 cutoff selected to attenuate a leakage signal.
- 1 13. The radar receiver of claim 11 wherein said bandpass characteristic has a low frequency
 2 cutoff selected to attenuate a received RF signal reflected by an object located more than a
 3 predetermined distance from said RF receiver.
 - 14. A radar system comprising:
 - a transmit antenna for transmitting a first RF signal;
 - a receive antenna for receiving a second RF signal; and
 - a receiver circuit coupled to said receive antenna for processing said second RF signal and comprising a temperature compensated video amplifier.
 - 15. The radar system of claim 14 wherein said temperature compensated video amplifier comprises:
 - a first filter stage having an input terminal adapted to receive said second RF signal and an output terminal;
 - an attenuator having an input terminal coupled to the output terminal of said first filter

 stage and having an output terminal, said attenuator comprising a temperature sensitive device;
 - 5 and

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- a second filter stage having an input terminal coupled to the output terminal of the attenuator and an output terminal at which an output signal of said video amplifier is provided.
- 1 16. The radar system of claim 15 wherein said receiver circuit further comprises an RF
- 2 amplifier having a gain which varies by a first predetermined amount with temperature and
- 3 wherein said attenuator provides a gain which varies by a second predetermined amount with
- 4 temperature, wherein said first and second predetermined amounts are substantially equal.
- 1 17. The radar system of claim 14 wherein each of said first filter stage and said second filter stage has a bandpass characteristic.
 - 18. The radar system of claim 17 wherein said second RF signal includes a portion of said first RF signal and wherein said bandpass characteristic has a low frequency cutoff selected to attenuate said portion of said first RF signal.
 - 19. The radar system of claim 17 wherein said bandpass characteristic has a low frequency cutoff selected to attenuate a received RF signal reflected by an object located more than a
 - 3 predetermined distance from said radar system.
 - 1 20. The radar system of claim 15 further comprising:
 - 2 an analog-to-digital converter responsive to said output signal of said video amplifier for
 - 3 providing a digital signal;

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- 4 a temperature sensor for providing a signal indicative of the temperature of said receiver
- 5 circuit; and
- a digital signal processor responsive to said temperature indicative signal for varying a
- 7 threshold used to process said digital signal.